

Application Serial No. 10/521,539

Attorney Docket No. OT-5055

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended): A ~~spring-buffer~~ for an elevator system, the buffer comprising:

a conical coil spring,

wherein the said-buffer is configured to be disposed at one end of a hoistway of the elevator system for contacting a vertically moving member of said elevator system in the event of an abnormal overrun, characterized in that

wherein the said-spring-buffer includes a conical coil spring ~~includes~~ having a spiral coil element that comprises a series of coils,

wherein a radius ~~decreasing with increasing axial displacement~~ of the spiral coil element decreases along an axis of the conical coil spring such that if the spiral coil spring is fully compressed, the coils of the spiral coil spring are configured to be arranged in a substantially planar configuration, and

wherein a thickness of the coil element is substantially uniform between an outermost coil and an innermost coil.

2. (Currently Amended): ~~The A-spring-buffer~~ as recited in claim 1, ~~further characterized in that said conical coil spring comprises a series of coils, wherein an outer-the outer radius of a the next sequential coil is less than an inner the inner-radius of an adjacent the-preceding coil, thereby permitting said coils to be compressed axially without experiencing radial interference.~~

3. (Currently Amended): The ~~spring-buffer~~ as recited in claim 2, wherein a further characterized in that the cross-section of the coil element is circular.

4. (Currently Amended): The ~~spring-buffer~~ as recited in claim 2, wherein a further characterized in that the cross-section of the coil element is ~~rectangular~~ arcuate.

5. (Currently Amended): The ~~spring-buffer~~ as recited in claim 2, wherein a further characterized in that the transverse coil pitch of the coil element is constant.

Application Serial No. 10/521,539

Attorney Docket No. OT-5055

6. (Currently Amended): The ~~spring~~-buffer as recited in claim 1, ~~where-in~~ wherein the vertically moving element is an elevator car.

7. (Currently Amended): The ~~spring~~-buffer as recited in claim 1, ~~where-in~~ wherein the vertically moving element is a counterweight.

8. (New): The buffer as recited in claim 1, wherein a thickness the innermost coil radially varies so as to create a substantially flat contact surface.

9. (New): The buffer as recited in claim 1, wherein a thickness the outermost coil radially varies so as to create a substantially flat contact surface.

10. (New): The buffer as recited in claim 9, wherein a thickness the innermost coil radially varies so as to create a substantially flat contact surface.